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10/538,333	06/10/2005	Andrei Mijiritskii	NL030118	1598
24737 7590 10/07/2008 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001			EXAMINER	
			SHEN, KEZHEN	
BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
			2627	
			MAIL DATE	DELIVERY MODE
			10/07/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Application No. Applicant(s) 10/538,333 MIJIRITSKII, ANDREI Office Action Summary Examiner Art Unit Kezhen Shen 2627 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (PTO-413) Paper No(s)Mail Date.  5) Notice of Informal Patent Application	
Align	6) Other:	
5. Patent and Trademark Office		-

Application/Control Number: 10/538,333

Art Unit: 2627

## DETAILED ACTION

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Tomie US 6,251,492 B1.

Regarding claim 1 Tomie teaches a rewritable optical record carrier (Fig. 1, Col 3 Lines 30-48) comprising a recording stack of layers with a first dielectric layer (4 of Fig. 1, Col 3 Lines 30-48), a recording layer comprising a phase-change recording material (5 of Fig. 1, Col 3 Lines 30-48), and a second dielectric layer (6 of Fig. 1, Col 3 Lines 30-48), characterized in that a thermal barrier layer (2 of Fig. 1, Col 3 Lines 30-48) is arranged adjacent to said first dielectric layer (Col 4 Lines 47-51, Col 5 Lines 51-54 the first dielectric layer and the thermal barrier layer may be made of the same material ZnS-SiO<sub>2</sub> which makes them adjacent to one another).

Regarding claim 2, Tomie teaches a rewritable optical record carrier according to claim 1, characterized in that it further comprises a substrate carrying said stack of Application/Control Number: 10/538,333

Art Unit: 2627

layers having said thermal barrier layer arranged between said first dielectric layer and said substrate (1, 2 and 4 of Fig. 1, Col 3 Lines 30-48).

Regarding claim 3, Tomie teaches a rewritable optical record carrier according to claim 2, characterized in that the refraction index of said thermal barrier layer is close to the refraction index of said substrate (Col 4 Lines 9-11, Col 4 Lines 46-50 the refractive index of SiO<sub>2</sub> is around 1.5 and the refractive index of Polycarbonate is around 1.58).

Regarding claim 4, Tomie teaches a rewritable optical record carrier according to claim 1, characterized in that it further comprises a cover layer (1 of Fig. 1, Col 3 Lines 30-48 the substrate is the cover layer, in this case there would be another layer covering the second dielectric layer, Col 5 Line 65- Col 6 Line 5) attached to said thermal barrier layer.

Regarding claim 5, Tomie teaches a rewritable optical record carrier according to claim 4, characterized in that the refraction index of said thermal barrier layer is close to the refraction index of said cover layer (Col 4 Lines 9-11, Col 4 Lines 46-50 the refractive index of  $SiO_2$  is around 1.5 and the refractive index of Polycarbonate is around 1.58).

Regarding claim 6, Tomie teaches a rewritable optical record carrier according to claim 2, characterized in that said substrate material is polycarbonate or PMMA (Col 1 Lines 51-58, Col 4 Lines 9-11).

Regarding claim 7, Tomie teaches a rewritable optical record carrier according to claim 4, characterized in that said cover layer material is polycarbonate or transparent polymer resin (Col 1 Lines 51-58. Col 4 Lines 9-11).

Application/Control Number: 10/538,333

Art Unit: 2627

Regarding claim 8, Tomie teaches a rewritable optical record carrier according to claim 1, characterized in that said thermal barrier layer material comprises SiO<sub>2</sub> or Al<sub>2</sub>O<sub>3</sub> as its major component (Col 4 Lines 46-51).

Regarding claim 9, Tomie teaches a rewritable optical record carrier according to claim 1, characterized in that said first and second dielectric layer materials comprise one of the following components or a mixture thereof: ZnS, SiO<sub>2</sub>, Si<sub>3</sub>N<sub>4</sub>, Al<sub>2</sub>O<sub>3</sub> or Ta<sub>2</sub>O<sub>5</sub> (Col 5 Lines 49-54).

Regarding claim 10, Tomie teaches a rewritable optical record carrier according to claim 1, characterized in that said phase-change recording material comprises a mixture of Ge, In, Sb, and Te (Col 5 Lines 20-25).

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kezhen Shen whose telephone number is (571) 270-1815. The examiner can normally be reached on Monday-Friday 10am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on (571) 272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the 
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Page 5

Application/Control Number: 10/538,333

Art Unit: 2627

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/TAN Xuan DINH/ Primary Examiner, Art Unit 2627 September 30, 2008

/Kezhen Shen/ Examiner, Art Unit 2627